Bay Area Air Quality Management District

939 Ellis Street San Francisco, CA 94109 (415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To: Criterion Catalyst & Technologies Company L.P. Facility #A0227

Facility Address:

2840 Willow Pass Road Pittsburg, CA 94565

Mailing Address:

P.O. Box 5159 Pittsburg, CA 94565-0659

Responsible Official

William H. Howell, Plant Site Manager (925) 458-7200

Facility Contact

John W. Durant, Environmental Manager (925) 458-7269

Type of Facility: Catalyst Manufacturing BAAQMD Permit Division Contact: **Primary SIC:** 2819 Dharam Singh

Primary SIC: 2819 Product: Catalyst

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Ellen Garvey November 30, 2001
Ellen Garvey, Executive Officer/Air Pollution Control Officer Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/17/01);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 8/1/01);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 2/25/99); and

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 5/17/01).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

- 1. This Major Facility Review Permit was issued on November 30, 2001, and expires on October 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than April 30, 2006, and no earlier than October 31, 2005. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** October 31, 2006. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
- 2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
- 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

I. Standard Conditions

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
- 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

I. Standard Conditions

E. Records

- 1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
- 2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be November 30, 2001, to April 30, 2002. The report shall be submitted by May 31, 2002. Subsequent reports shall be for the following periods: May 1st through October 31st and November 1st through April 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109 Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be November 1st to October 31st. The certification shall be submitted by November 30th of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated compliance certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division

I. Standard Conditions

USEPA, Region IX 75 Hawthorne Street San Francisco, CA94105 Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

- 1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- 2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
- 3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

II. EQUIPMENT

Table II A - Permitted Sources

S-#	Description	Make or Type	Model	Capacity
1	X1 Muller	Simpson	3UD	36 ton/day max.
2	X1 Dryer (Natural gas)	Wysmont	Q-16	5.724 MMBTU/hr max,
				36 ton/day max
3	X1 Dried Product Elevator	Link Belt		36 ton/day max.
4	X1 Dried Product Screener	Rotex	#242	36 ton/day max.
5	X1 Longs Breaker	Shell Development	CLOB #1	36 ton/day max.
6	X1 Kiln Feed Conveyor	Link Belt		36 ton/day max.
	System			
7	X1 Kiln (Natural gas)	B/S Rotary	F-82	8.0 MMBTU/hr max., 36
				ton/day max.
8	X1 Calcined Product Elevator	Link Belt		36 ton/day max.
9	X1 Calcined Product	Rotex	#242	36 ton/day max.
	Screener			
10	X1 Calcined Product	Toledo Scale		36 ton/day max.
	Packaging			
11	X1 Calcined Product	Custom made		36 ton/day max.
	Conveyor			
19	X1 Recycle Station	Custom made		36 ton/day max.
104	H1 Blending Tank T-1	Open Tank		480 gallon capacity, 36
				tons/day max.
105	H1 Blending Tank T-2	Open Tank		480 gallon capacity, 36
				tons/day max.
106	H1 Blending Tank T-3	Open Tank		160 gallon capacity, 36
				ton/day max.
107	H1 Liquid/Solids Blender	Patterson Foundry	#58-2971	140 cu. ft., 36 tons/day
				max.
109	04 Kiln (Natural gas)	Gould, Rotary	F-81	2.5 MMBTU/hr max., 36
				ton/day max.
110	04 Calcined Product Cooler	Rex-Carrier	QAQ	36 ton/day max.
			1260S	
111	04 Calcined Product Elevator	Universal	C2-175	36 ton/day max.
112	04 Calcined Product Screener	Rotex	242	36 ton/day max.

Table II A - Permitted Sources

S-#	Description	Make or Type	Model	Capacity
113	04 Calcined Product	Toledo Scale		36 ton/day max.
	Packaging			
114	04 Kiln Hopper	Frederiksen		36 ton/day max.
		Engineering		
201	05 Muller	Simpson	UD2	44 ton/day max.
205	05 Dryer	Shell Design		44 ton/day max.
206	05 Kiln (Natural gas)	Gould, Rotary	F-80	3.7 MMBTU/hr max., 44
				ton/day max.
207	05 Product Elevator	Bucket type		44 ton/day max.
208	05 Product Screener	Rotex	#242	44 ton/day max.
210	05 Packaging Station			44 ton/day max.
211	05 Grinder System	Bico Braun	UD 242	12 ton/day max.
216	05 North Elevator	Hapman, Roller		44 ton/day max.
		bucket		
220	05 Repackaging Station	Custom made		24 ton/day max.
221	05 Recycle Hopper	Custom made		36 ton/day max.
222	05 Grinder Feed Hopper	Custom made		6 ton/day max.
223	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#1 (Empty Container			
	Removal)			
224	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#2 (Empty Container			
	Removal)			
225	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#3 (Empty Container			
	Removal)			
226	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#4 (Empty Container			
	Removal)			
227	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#5 (Empty Container			
	Removal)			
228	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#6 (Empty Container			
	Removal)			

Table II A - Permitted Sources

S-#	Description	Make or Type	Model	Capacity
229	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#7 (Empty Container			
	Removal)			
230	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#8 (Empty Container			
	Removal)			
231	05 Powder Batching Hopper	Custom made		41 ton/day max.
	#9 (Empty Container			
	Removal)			
303	Alumina Receiving Fluidstat	Buhler-Miag, Inc.		100 cu. ft., 100 ton/day
	Station			max.
304	Alumina Silo 1			15,000 cu. ft.
305	Alumina Silo 2			15,000 cu. ft.
306	Alumina Silo 3			8,500 cu. ft.
307	Alumina Silo 4			8,500 cu. ft.
308	Alumina Silo 5			15,000 cu. ft.
309	Alumina Recirculation	Buhler-Miag, Inc.		180 cu. ft.
	Fluidstat Station			
310	Alumina Measuring Fluidstat	Buhler-Miag, Inc.		150 cu. ft., 112.5
	Station			ton/day max.
311	Alumina Bulk Bag Unloader	Buhler-Miag, Inc.		48 ton/day max.
312	Alumina Repackaging	W.W. Sly		32 ton/day max.
	Station			
313	Fines Grinder Feed Hopper	Custom made		140 cu. ft., 12 ton/day
	System			max.
314	Reground Fines Storage Silo	Custom made		750 cu. ft., 12 ton/day
	TK-70112			max.
315	Reground Fines Storage Silo	Custom made		750 cu. ft., 12 ton/day
	TK-70113			max.
316	Reground Fines Storage Silo	Custom made		750 cu. ft., 12 ton/day
	TK-70114			max.
317	Reground Fines Storage Silo	Custom made		750 cu. ft., 12 ton/day
<u> </u>	TK-70115			max.
318	Fines Weigh Hopper Blow	Smoot	V-70102	25 cu. ft., 12 ton/day
	Pot			max.

Table II A - Permitted Sources

S-#	Description	Make or Type	Model	Capacity
319	Fines Bagout Station No. 1 &			1.0 ton supersacks; 55-
	No. 2			gallon drums, 12
				ton/day max.
320	Fines Grinder	Micro-Pulverizer	60 ACM	12 ton/day max.
321	Alumina Storage Silo			1.1 tons/hr max.
401	X2 Muller	Simpson	3UD	39 ton/day max.
407	X2 Dryer (Natural gas)	Wysmont	#Q-16	5.7 MMBTU/hr max., 39
				ton/day max.
408	X2 Dried Product Elevator	Link Belt, Bucket		39 ton/day max.
409	X2 Dried Product Screener	Rotex	#242	39 ton/day max.
410	X2 Longs Breaker	Shell Development	CLOB #1	39 ton/day max.
412	X2 Kiln Feed Conveyor	Link Belt, Covered		39 ton/day max.
413	X2 Kiln	B/S, Rotary		8.1 MMBTU/hr max., 39
				ton/day max.
414	X2 Calcined Product Elevator	Link Belt or equal		39 ton/day max.
415	X2 Calcined Product	Rotex	#242	39 ton/day max.
	Screener			
416	X2 Calcined Product	Toledo Scale or equal		39 ton/day max.
	Packaging			
417	X2 Calcined Product	Custom made		39 ton/day max.
	Conveyor			
418	X2 Recycle Station	Custom made		39 ton/day max.
420	Cold Cleaner	Shell Design		11 gallon
502	Nickel Solution Tank			15,000 gallon
504	H2 Blending Tank T-1	Heated		500 gallon, 52 ton/day
				max.
505	H2 Blending Tank T-2	Heated		625 gallon, 52 ton/day
				max.
506	H2 Blending Tank T-3	Heated		300 gallon, 52 ton/day
				max.
507	H2 Liquids/Solids Blender			115 cu. ft., 52 ton/day
				max.
509	HSA Kiln Feed Conveyor	Bucket elevator		52 ton/day max.
510	H2 Kiln (Natural gas)	B/S, Rotary		8.6 MMBTU/hr max., 52
				ton/day max.

Table II A - Permitted Sources

S-#	Description	Make or Type	Model	Capacity
511	HAS Product Conveyor	Link Belt, Bucket elevator		52 ton/day max.
512	HAS Product Screener	Rotex	#242	52 ton/day max.
513	HAS Product Packaging	Toledo Scale		52 ton/day max.
515	H2 Solid Additive Hopper A	Young, custom		60 ton/day max.
516	H2 Solid Additive Hopper B	Young, custom		60 tons/day max.
517	H2 Product Recycle System	Custom made		52 ton/day max.
518	H2 Calcined Feed System	Custom made		52 ton/day max.
519	H2 Spherical Hopper System	Paystar, custom		52 ton/day max.
520	H2 Calcined Feed Bagout Station	Custom made		52 ton/day max.
600	X3 Dried Extruder Screener, Conveyors			36 ton/day max.
601	X3 Fines Surge Hopper			36 ton/day max.
602	X3 Alumina Surge Hopper			36 ton/day max.
603	X3 Extruder	Warner Pflidder		36 ton/day max.
604	X3 Dryer (Natural gas)			6.1 MMBTU/hr max., 36 ton/day max.
606	X3 Calciner (Natural gas)	Heyl & Patterson Inc., Custom made		8.718 MMBTU/hr max., 36 ton/day max.

Table II B – Abatement Devices

		Sauras(a)	Ampliachla	Operating	
. ш	Daniel Alam	Source(s)	Applicable		T TSCC
A- #	Description	Controlled	Requiremen t	Parameters	Limit or Efficiency
2	X1 Kiln Baghouse,	S7	BAAQMD	None	Outlet grain
	Reverse Jet, Micro Pul		Reg. 6-301,		loading shall not
	144-S-10		6-310, Cond		exceed 0.006
			# 13100		grain/dscf
3	X1 Nuisance Dust	S3, S4, S5, S6,	BAAQMD	None	Outlet grain
	Baghouse, Reverse Jet,	S8, S9, S10,	Reg. 6-301,		loading shall not
	Flex-Kleen 36BV-25	S11	6-310, and		exceed 0.15
			Cond #		grain/dscf
			16736		
4	X1 Area Dust Collector,	S1	BAAQMD	None	Outlet grain
	Pulse Jet, Flex-Kleen 120		Reg. 6-301,6-		loading shall not
	BVTC, 383 sq. ft., 1116		310, Cond #		exceed 0.006
	acfm		8444		grain/dscf
6	X1 Dryer Baghouse,	S2	BAAQMD	None	Outlet grain
	Reverse Jet, Flex-Kleen,		Reg. 6-301,		loading shall not
	10,000 scfm		6-310, Cond		exceed 0.006
			# 13099		grain/dscf
12	04 Plant Incinerator F79,	S107, A15	Cond #	None	Outlet grain
	Direct Flame Afterburner,		16314		loading shall not
	JZ,V/C, 5.5 MMBTU/hr				exceed 0.006
	max. (Natural gas)				grain/dscf
14	04 Plant Nuisance Dust	S110,S111,	BAAQMD	None	Outlet grain
	Baghouse, Pulse Jet,	S112, S113,	Reg. 6-301,		loading shall not
	Mikro-Pulsaire, 156S-10-	S114	6-310, Cond		exceed 0.006
	20-TR, 7500 acfm		# 13138		grain/dscf
15	04 Kiln Baghouse, Pulse	S109	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen, 6,720 acfm		Reg. 6-301,		loading shall not
			310, Cond #		exceed 0.006
			16314		grain/dscf
21	05 Muller Baghouse,	S201	BAAQMD	None	Outlet grain
	Reverse Jet, Mikro Pul		Reg. 6-301,		loading shall not
	25S-8-30		6-310		exceed 0.15
					grain/dscf

Table II B – Abatement Devices

A- #	Description	Source(s) Controlled	Applicable Requiremen t	Operating Parameters	Limit or Efficiency
22	05 Pelletizer, Product, &	S205, S206,	BAAQMD	None	Outlet grain
	Dryer Baghouse, Reverse	S216, S221	Reg. 6-301,		loading shall not
	Jet, Mikro Pul 255-8-30,		6-310		exceed 0.15
	1600 acfm				grain/dscf
23	05 Hopper Baghouse,	S220, S222	Cond #	None	Outlet grain
	Pulse Jet, Mikro Pul 25S-8-		16736		loading shall not
	30, 1700 acfm				exceed 0.01
					grain/dscf
24	05 Nuisance Baghouse,	S207, S208,	BAAQMD	None	Outlet grain
	Reverse Jet, Flex-Kleen,	S210	Reg. 6-301,		loading shall not
	100 WRB-100, 6450 cfm		6-310		exceed 0.15
					grain/dscf
25	Grinder Filter Receiver,	S211	BAAQMD	None	Outlet grain
	Reverse Jet		Reg. 6-301,		loading shall not
			6-310		exceed 0.15
					grain/dscf
26	05 Powder Batching	S223,S224,	Cond #	None	Outlet grain
	Nuisance Baghouse, 48	S225,S226,	16550		loading shall not
	polyester bags, 200 sq. ft.,	S227,S228,			exceed 0.01
	840 cfm	S229,S230,			grain/dscf
		S231			
32	Alumina Receiving Dust	S303	BAAQMD	None	Outlet grain
	Collector, Reverse Jet,		Reg. 6-301,		loading shall not
	Flex-Kleen 84 CT-24, 240		6-310		exceed 0.15
	sq. ft.				grain/dscf
33	Silo 1 Vent Filter, Reverse	S304	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen 84 BV-16,		Reg. 6-301,		loading shall not
	160 sq. ft.		6-310		exceed 0.15
					grain/dscf
34	Silo 2 Vent Filter, Reverse	S305	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen 84 BV-16,		Reg. 6-301,		loading shall not
	160 sq. ft.		6-310		exceed 0.15
					grain/dscf
35	Silo 3 Vent Filter, Reverse	S306	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen 84 BV-16,		Reg. 6-301,		loading shall not
	160 sq. ft.		6-310		exceed 0.15
					grain/dscf

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requiremen t	Operating Parameters	Limit or Efficiency
36	Silo 4 Vent Filter, Reverse	S307	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen 84 BV-16,		Reg. 6-301,		loading shall not
	160 sq. ft.		6-310		exceed 0.15
					grain/dscf
37	Silo 5 Vent Filter, Reverse	S308	BAAQMD	None	Outlet grain
	Jet, Flex-Kleen 84 BV-16,		Reg. 6-301,		loading shall not
	160 sq. ft.		6-310		exceed 0.15
					grain/dscf
38	Alumina Recirculation	S309	BAAQMD	None	Outlet grain
	Blowpot Baghouse,		Reg. 6-301,		loading shall not
	Reverse Jet, Flex-Kleen 84		6-310		exceed 0.15
	CT-46, 460 sq. ft.				grain/dscf
39	Alumina measuring	S310	BAAQMD	None	Outlet grain
	Blowpot Baghouse,		Reg. 6-301,		loading shall not
	Reverse Jet, Flex-Kleen 84		6-310		exceed 0.15
	CT-30, 300 sq. ft.				grain/dscf
40	Repackaging Baghouse,	S311, S312,	Cond # 3344	None	Outlet grain
	Reverse Jet, Flex-Kleen	S313			loading shall not
	WRTS-64, 6200 acfm.				exceed 0.005
					grain/dscf
42	Extrudate II Dust	S408, S409,	BAAQMD	None	Outlet grain
	Collector, Reverse Jet,	S410, S412,	Reg. 6-301,		loading shall not
	Mikro Pul 100-S-10-20	S414, S415,	6-310		exceed 0.15
		S416			grain/dscf
43	Extrudate II Kiln	S413	Cond #	None	Outlet grain
	Baghouse, Reverse Jet,		13100		loading shall not
	Mikro Pul 144-S-10				exceed 0.006
					grain/dscf
44	Reground Fines Silo Dust	S314, S320	Cond # 8468	None	Outlet grain
	Collector, Pulse Jet,				loading shall not
	Mikro-Pulsaire 100-S12-				exceed 0.005
	TR-B, 1414 sq. ft.				grain/dscf
45	Reground Fines Silo Dust	S315, S320	Cond # 8468	None	Outlet grain
	Collector, Pulse Jet,				loading shall not
	Mikro-Pulsaire 100-S12-				exceed 0.005
	TR-B, 1414 sq. ft.				grain/dscf

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	
A-#	Description	Controlled	Requiremen	Parameters	Limit or Efficiency
11 11	Description	Controlled	t	Turumeters	Emile of Efficiency
46	Reground Fines Silo Dust	S316, S320	Cond # 8468	None	Outlet grain
	Collector, Pulse Jet,				loading shall not
	Mikro-Pulsaire 100-S12-				exceed 0.005
	TR-B, 1414 sq. ft.				grain/dscf
47	Reground Fines Silo Dust	S317, S320	Cond # 8468	None	Outlet grain
	Collector, Pulse Jet,				loading shall not
	Mikro-Pulsaire 100-S12-				exceed 0.005
	TR-B, 1414 sq. ft.				grain/dscf
48	X2 Muller Filter Receiver,	S401	Cond # 8445	None	Outlet grain
	Pulse Jet, Flex-Kleen 120				loading shall not
	BVTC, 383 sq. ft., 1116				exceed 0.006
	acfm				grain/dscf
49	H1 Blending Tank	S104, S105,	Cond # 9984	None	Outlet grain
	Baghouse, Pulse Jet,	S106			loading shall not
	Mikro-Pulsaire 64S10-				exceed 0.006
	20TRC, 3500 acfm				grain/dscf
50	Alumina Silo 6 Vent Filter,	S321	Cond #	None	Outlet grain
	Pulse Jet, Flex-Kleen		13092		loading shall not
	84-BV-16, 160 sq. ft.				exceed 0.006
					grain/dscf
52	H2 Solid Additive Hopper	S515	BAAQMD	None	Outlet grain
	A Filter Receiver, Young		Reg. 6-301,		loading shall not
	Almos, 1200 acfm		6-310		exceed 0.15
					grain/dscf
53	H2 Solid Additive Hopper	S516	BAAQMD	None	Outlet grain
	B Filter Receiver, Young		Reg. 6-301,		loading shall not
	Almos, 1200 acfm		6-310		exceed 0.15
					grain/dscf
54	H2 Kiln Baghouse,	S504, S505,	Cond # 9315	None	Outlet grain
	Reverse Jet, Mikro Pul	S506, S507,			loading shall not
	144-S-8	S510			exceed 0.006
					grain/dscf
55	Nuisance Baghouse,	S509, S511,	BAAQMD	None	Outlet grain
	Reverse Jet, Mikro Pul	S512, S513,	Reg. 6-301,		loading shall not
	144-S-5	S517, S518,	6-310		exceed 0.15
		S519, S520			grain/dscf

Table II B – Abatement Devices

A- #	Description	Source(s) Controlled	Applicable Requiremen t	Operating Parameters	Limit or Efficiency
56	Afterburner H2 Rotary Kiln Exhaust, Model 1215- 10-TR, 8.0 MMBTU/hr max. (Natural gas)	S504, S505, S506, S507, S510, A54	Cond # 9315	Minimum operating temperature of 1400 degree F	CO = 400 ppm @3% Oxygen; NOx = 120 lb/day; NH3 = 200 lb/day
57	X2 Dryer Baghouse, Reverse Jet, Flex-Kleen 10,000 scfm	S407	Cond # 13099	None	Outlet grain loading shall not exceed 0.006 grain/dscf
58	X1/X2 Kiln SCR, Shell DeNOx, 17,000 acfm	S7, S413, A2, A43	Cond # 13100		NOx = 58 lb/day or $21,000 lb/yr$
320	Alumina Receiving Station Blowpot Dry In-line Filter, Dollinger, 1000 cfm	A32	BAAQMD Reg. 6-301, 6-310	None	Outlet grain loading shall not exceed 0.15 grain/dscf
380	Alumina Recirculation Station Blowpot Dry In- line Filter, Dollinger, 2000 cfm	A38	BAAQMD Reg. 6-301, 6-310	None	Outlet grain loading shall not exceed 0.15 grain/dscf
390	Alumina Measuring Station Blowpot Dry In- line Filter, Dollinger, 2000 cfm	A39	BAAQMD Reg. 6-301, 6-310	None	Outlet grain loading shall not exceed 0.15 grain/dscf
601	X3 Fines Surge Hopper Baghouse, Pulse Jet, Flex- Kleen, 148 sq. ft.	S601	Cond # 13094	None	Outlet grain loading shall not exceed 0.006 grain/dscf
602	X3 Alumina Surge Hopper Baghouse, Pulse Jet, Flex- Kleen, 148 sq. ft.	S602	Cond # 13095	None	Outlet grain loading shall not exceed 0.006 grain/dscf
603	X3 Dryer Baghouse, Reverse Jet, Flex-Kleen, 12,000 scfm	S604	Cond # 13097	Pressure drop to be determined	Outlet grain loading shall not exceed 0.006 grain/dscf

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requiremen t	Operating Parameters	Limit or Efficiency
604	X3 Calciner Baghouse, Reverse Jet, Hosakawa Micropul, 2,000 scfm	S606	Cond # 15672		Outlet grain loading shall not exceed 0.006
605	X3 Calciner SCR, Shell	S606	Cond #		grain/dscf NOx = 51 lb/day or
	DeNOx, 3,100 dscfm		15672		18,500 lb/yr; NH3 = 490 lb/day or 48,000 lb/yr
606	X3 Calciner CO Catalyst, Custom made	S606	Cond # 15672		CO abatement efficiency at least 90% and inlet conc. not to exceed 200 ppmv; CO outlet conc. not to exceed 25 ppmv

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with <u>both</u> versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/17/01)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 2, Rule	General Requirements (8/1/00)	Y
1		
BAAQMD 2-1-429	Federal Emissions Statement	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
Requirement	Description of Requirement	(Y/N) Y
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	
BAAQMD Regulation 5	Open Burning (11/2/94)	N
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N Y
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule	Organic Compounds - Aerosol Paint Products	N
49	(12/20/95)	
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products	Y
	(3/22/95)	NI
BAAQMD Regulation 8, Rule	Organic Compounds - Adhesive and Sealant	N
51	Products (12/20/95)	
BAAQMD Regulation 11, Rule	Hazardous Pollutants - Asbestos Demolition,	Y
2	Renovation and Manufacturing (12/4/91)	
BAAQMD Regulation 12, Rule	Miscellaneous Standards of Performance -	Y
4	Sandblasting (7/11/90)	
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart E, 40 CFR 82.106	Containers Containing a Class I or Class II	Y
	Substance and Products Containing or	
	Manufactured with a Class I Substance	
Subpart E, 40 CFR 82.108	Warning Statements	Y
Subpart E, 40 CFR 82.110	Labels	Y
Subpart E, 40 CFR 82.112	Modification, Removal, or Interference with	Y
	Warning Statements	
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

Table IV - A
Source-specific Applicable Requirements
S1 - X1 MULLER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#8444			
Part 1	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 2	A4 Area dust collector air flow rate and exhaust grain loading	Y	
	requirement (basis: cumulative increase)		
Part 3	Abatement requirement, and device failure warning	Y	
	requirement (basis: cumulative increase)		

Table IV - B Source-specific Applicable Requirements S2 - X1 DRYER, S407 - X2 DRYER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	SO2 Emission Limit	Y	
BAAQMD			
Condition			
#13099			
Part 1	Visible emissions limit requirement (basis: Regulation 6-301, 1-	Y	
	301)		
Part 2	Abatement requirement, and device failure warning requirement	Y	
	(basis: Reg. 6-301, 6-310, 6-311, cumulative increase)		
Part 3	A6 and A57 Baghouses air flow rate and exhaust grain loading	Y	
	requirement (basis: cumulative increase)		

Table IV - C Source-specific Applicable Requirements S3 - X1 Dried Product Elevator, S4-X1 Dried Product Screener, S5-X1 Longs Breaker, S6-X1 Kiln Feed Conveyor System, S8-X1 Calcined Product Elevator, S9-X1 Calcined Product Screener, S10-X1 Calcined Product Packaging

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - D Source-specific Applicable Requirements S7 - X1 KILN, S413 - X2 KILN

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	SO2 Emission Limit	Y	

Table IV - D Source-specific Applicable Requirements S7 - X1 KILN, S413 - X2 KILN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #13100			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Abatement requirement, and device failure warning requirement (basis: Regulation 6-301, 6-310, BACT)	Y	
Part 3	A2 and A43 Baghouses air flow rate and exhaust grain loading requirement (basis: cumulative increase)	Y	
Part 4	Fuel and fuel usage limits at S7 (basis: cumulative increase)	Y	
Part 5	Fuel and fuel usage limits at S413 (basis: cumulative increase)	Y	
Part 6	NOx daily and annual emission limits (basis: cumulative increase)	Y	
Part 7	Grain loading source test requirement (basis: cumulative increase)	Y	
Part 8	NOx continuous emission monitor (CEM) requirement (basis: cumulative increase)	Y	
Part 9	Fuel meter requirement (basis: cumulative increase)	Y	
Part 10	Fuel usage record keeping requirement (basis: Regulation 2-6-501, cumulative increase)	Y	

Table IV - E Source-specific Applicable Requirements S11 - X1 CALCINED PRODUCT CONVEYOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)	(1/14)	Date
Regulation 6	(
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#16736			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 5	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 6	Record keeping requirement (basis: cumulative increase)	Y	

Table IV - F
Source-specific Applicable Requirements
S19 - X1 RECYCLE STATION

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16736			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 6	Record keeping requirement (basis: cumulative increase)	Y	

Table IV - G Source-specific Applicable Requirements S104 - H1 BLENDING TANK T-1, S105 - H1 BLENDING TANK T-2, S106 - H1 BLENDING TANK T-3

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #9984			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	A49 Baghouse air flow rate and exhaust grain loading requirement (basis: cumulative increase)	Y	
Part 3	Abatement requirement, and device failure warning requirement (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)	Y	

Table IV - H
Source-specific Applicable Requirements
S107 - H1 LIQUID/SOLID BLENDER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	

$\begin{tabular}{l} Table\ IV-I\\ Source-specific\ Applicable\ Requirements\\ S109-O4\ KILN \end{tabular}$

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)	(1/14)	Date
Regulation 6	Tarticulate Matter and Visible Emissions (12/17/70)		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	SO2 Emission Limit	Y	
BAAQMD			
Condition			
#16314			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 2	Abatement requirement (basis: Regulation 6-301, 6-310-, 6-311)	Y	
Part 3	A15 Baghouse good operating condition and exhaust grain	Y	
	loading requirement (basis: cumulative increase)		
Part 4	Record keeping requirement (basis: Regulation 2-6-501; cumulative increase)	Y	

Table IV - J Source-specific Applicable Requirements \$110 - O4 CALCINED PRODUCT COOLER, \$111 - O4 CALCINED PRODUCT ELEVATOR, \$112 - O4 CALCINED PRODUCT SCREENER,

S113 – CALCINED PRODUCT PACKAGING, S114 – O4 KILN HOPPER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#13138			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-	Y	
	301)		
Part 2	A14 Baghouse particulate emission rate, and exhaust grain	Y	
	loading requirement (basis: cumulative increase)		
Part 3	Abatement requirement, and device failure warning requirement	Y	
	(basis: Regulation 6-301, 6-310; cumulative increase)		

Table IV – K Source-specific Applicable Requirements S201 - O5 MULLER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	

Table IV – K Source-specific Applicable Requirements S201 - O5 MULLER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - L Source-specific Applicable Requirements S205 - O5 DRYER, S206 - O5 KILN

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	SO2 Emission Limit	Y	

Table IV - M Source-specific Applicable Requirements

S207 - O5 PRODUCT ELEVATOR, S208 - O5 PRODUCT SCREENER,

S210 – O5 PACKAGING STATION,

S211 – O5 GRINDER SYSTEM

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		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV – N Source-specific Applicable Requirements S216 – O5 NORTH ELEVATOR, S221 – O5 RECYCLE HOPPER,

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#16736			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 5	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 6	Record keeping requirement (basis: cumulative increase)	Y	

Table IV - O
Source-specific Applicable Requirements
S220 - O5 REPACKAGING STATION,
S222 - O5 GRINDER FEED HOPPER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16736			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 2	A23 exhaust grain loading requirement (basis: TBACT; Toxic risk screen)	Y	
Part 3	Hexavalent chromium emission rate limit from S220 (basis: Toxic risk screen)	Y	
Part 4	Source test requirements (basis: Regulation 6-310; TBACT; Toxic risk screen)	Y	
Part 5	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 6	Record keeping requirement (basis: cumulative increase)	Y	

Table IV - P Source-specific Applicable Requirements S223-S231 - O5 POWDER BATCHING HOPPERS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

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Table IV - P Source-specific Applicable Requirements S223-S231 - O5 POWDER BATCHING HOPPERS

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#16550			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 2	A26 Baghouse air flow rate, and exhaust grain loading requirement (basis: Regulation 6-301; cumulative increase)	Y	
Part 3	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 4	Record keeping requirement (basis: Regulation 2-6-501; cumulative increase	Y	

Table IV - Q Source-specific Applicable Requirements S303 - ALUMINA RECEIVING FLUIDSTAT STATION, S309 - ALUMINA RECIRCULATION FLUIDSTAT STATION, S310 - ALUMINA MEASURING FLUIDSTAT STATION

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - R Source-specific Applicable Requirements S304 - ALUMINA SILO 1

S305 – ALUMINA SILO 2, S306 – ALUMINA SILO 3 S307 – ALUMINA SILO 4, S308 – ALUMINA SILO 5

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - S Source-specific Applicable Requirements S311 - ALUMINA BULK BAG UNLOADER, S312 - ALUMINA REPACKAGING STATION, S313 - FINES GRINDER FEED HOPPER SYSTEM

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#3344			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	S311 and S312 throughput limit (basis: cumulative increase)	Y	
Part 3	S313 catalyst throughput limit (basis: cumulative increase)	Y	

Table IV - S Source-specific Applicable Requirements S311 - ALUMINA BULK BAG UNLOADER, S312 - ALUMINA REPACKAGING STATION, S313 - FINES GRINDER FEED HOPPER SYSTEM

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 4	Abatement requirement (basis: Regulation 6-301, 6-310, 6-311)	Y	
Part 5	A40 Baghouse good operating condition requirement, and device	Y	
	failure warning requirement (basis: Regulation 6-301, 6-310, 6-311)		
Part 6	A40 Baghouse air flow rate and exhaust grain loading limits	Y	
	requirement (basis: cumulative increase)		
Part 7	Nickel content limit in the material processed at S313 (basis: toxic	Y	
	risk screen)		
Part 8	Record keeping requirement (basis: Regulation 2-6-501;	Y	
	cumulative increase)		

Table IV - T

Source-specific Applicable Requirements

S314 - REGROUND FINES STORAGE SILO TK-70112,

S315 - REGROUND FINES STORAGE SILO TK-70113,

S316 - REGROUND FINES STORAGE SILO TK-70114,

S317 - REGROUND FINES STORAGE SILO TK-70115,

S318 - FINES WEIGH HOPPER BLOW POT,

S319 – FINES BAGOUT STATION NO.1 & NO.2, S320 – FINES GRINDER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - T

Source-specific Applicable Requirements

S314 - REGROUND FINES STORAGE SILO TK-70112,

S315 - REGROUND FINES STORAGE SILO TK-70113,

S316 - REGROUND FINES STORAGE SILO TK-70114,

 ${\bf S317}$ - Reground fines storage silo TK-70115,

S318 – FINES WEIGH HOPPER BLOW POT,

 $S319-Fines\, bagout\, station\, No.1$ & No.2,

S320 - FINES GRINDER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #8468			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Catalyst throughput limit (basis: cumulative increase)	Y	
Part 3	One silo loading at one time requirement (basis: cumulative increase)	Y	
Part 4	Abatement requirement (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)	Y	
Part 5	A44 through A47 Baghouses good operating condition requirement, and device failure warning requirement (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)	Y	
Part 6	A44 through A47 Baghouses air flow rate, and exhaust grain loading limits requirement (basis: cumulative increase)	Y	
Part 7	Nickel content limit in the material processed (basis: toxic risk screen)	Y	
Part 8	Record keeping requirement (basis: Regulation 2-6-501; cumulative increase)	Y	

Table IV - U Source-specific Applicable Requirements S321 - ALUMINA STORAGE SILO

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #13092			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Throughput limit requirement (basis: cumulative increase)	Y	
Part 3	Abatement requirement; A50 Baghouse good operating condition and device failure warning requirement (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)	Y	
Part 4	A50 Baghouse air flow rate, and exhaust grain loading limits requirement (basis: cumulative increase)	Y	
Part 5	Record keeping requirement (basis: Regulation 2-6-501; cumulative increase)	Y	

Table IV - V Source-specific Applicable Requirements S401 - X2 MULLER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	

Table IV - V Source-specific Applicable Requirements S401 - X2 MULLER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #8445			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	A48 Baghouse air flow rate, and exhaust grain loading requirement (basis: cumulative increase)	Y	
Part 3	Abatement requirement, and device failure warning requirement (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)	Y	

Table IV - W

Source-specific Applicable Requirements

S408 - X2 DRIED PRODUCT ELEVATOR,

S409 - X2 DRIED PRODUCT SCREENER,

S410 – X2 LONGS BREAKER,

S412 – X2 KILN FEED CONVEYOR,

S414 - X2 CALCINED PRODUCT ELEVATOR,

S415 - X2 Calcined product screener, S416 - X2 calcined product packaging

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - X

Source-specific Applicable Requirements
S417 - X2 CALCINED PRODUCT CONVEYOR,
S418 - X2 RECYCLE STATION,
S515 - H2 SOLID ADDITIVE HOPPER A,
S516 - H2 SOLID ADDITIVE HOPPER B,
S517 - H2 PRODUCT RECYCLE SYSTEM,
S518 - H2 CALCINED FEED SYSTEM,
S519 - H2 SPHERICAL HOPPER SYSTEM,
S520 - H2 CALCINED FEED BAGOUT STATION

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#16736			
Part 1	Throughput limit (basis: cumulative increase)	Y	
Part 5	Visible emissions limit requirement (basis: Regulation 6-301)	Y	
Part 6	Record keeping requirement (basis: cumulative increase)	Y	

Table IV - Y Source-specific Applicable Requirements S420 - COLD CLEANER

Applicable Requiremen t	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations		
8-16-118	Limited Exemption, compound with low volatility	Y	
8-16-118.2	Cold cleaner	1	
8-16-121	Limited Exemption, Single cold cleaner	Y	
8-16-122	Limited Exemption, Single cold cleaner Limited Exemption, Permitted cold cleaner	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.1	Proper Operation and Maintenance	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Prevention of Evaporation of Solvent	Y	
8-16-303.1.4	Waste Solvent	Y	
8-16-	Waste Solvent - Covered Containers	Y	
303.1.4.a			
8-16-	Waste Solvent Treatment	Y	
303.1.4.b			
8-16-303.1.5	Solvent Covers/Remote Reservoirs	Y	
8-16-303.1.6	Solvent Spray	Y	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent Draining	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Porous and Absorbent Materials	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Cover/Apparatus to Reduce Evaporation	Y	
8-16-303.3.3	Draining Clean Parts	Y	
8-16-303.3.4	Label	Y	
8-16-304	Halogenated solvent Limitation	Y	
8-16-501	Solvent Records	Y	
SIP	Organic Compounds – Solvent Cleaning Operations (6/15/94)		

Table IV - Y Source-specific Applicable Requirements S420 - COLD CLEANER

Applicable Requiremen t	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation			
8, Rule 16			
8-16-304	Trichloroethylene Limitation	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Quarterly Solvent Usage Records	Y	

Table IV - Z
Source-specific Applicable Requirements
S502 - NICKEL SOLUTION TANK

Applicable Requiremen t	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Permits, General Requirements		
Regulation 2 Rule 1			
2-1-316.1	Toxic compound emission limit and risk screening analysis	Y	

Table IV – AA Source-specific Applicable Requirements S504 - H2 Blending tank T-1, S505 – H2 Blending tank T-2, S506 – H2 Blending tank T-3,S507 – H2 Liquid/Solids blender, S509 – HSA Kiln feed conveyor, S510 – H2 Kiln

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Odorous Substances (5/21/80)		
Regulation 7			
7-301	General limit	Y	
7-302	Limit at or beyond property line	Y	
7-303	Limit	Y	
7-401	Collection of Samples	Y	
7-402	Analysis of Samples	Y	
7-403	Evaluation apparatus	Y	
7-404	Evaluation Procedure	Y	
7-405	Evaluation Analysis	Y	
7-601	Collection of Samples	Y	
7-602	Sampling Equipment and Techniques for Collection	Y	
BAAQMD			
Condition #9315			
Part 1	A54 Baghouse Visible emissions limit requirement (basis:	Y	
Part 2	Regulation 1-301, 6-301) A54 Baghouse air flow rate, and exhaust grain loading	Y	
	requirement (basis: cumulative increase)		
Part 3	Abatement requirement, and device failure warning requirement	Y	
	(basis: Regulation 6-301, 6-310, 6-311; cumulative increase)		
Part 4	A56 Afterburner good operating condition requirement (basis: cumulative increase)	Y	
Part 5	Natural gas fuel only, and temperature monitor requirement	Y	

$Table\ IV-AA$

Source-specific Applicable Requirements S504 - H2 Blending tank T-1, S505 – H2 Blending tank T-2, S506 – H2 Blending tank T-3,S507 – H2 Liquid/Solids blender, S509 – HSA Kiln feed conveyor, S510 – H2 Kiln

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Troquir orner	(basis: cumulative increase)	(2/11)	2 400
Part 6	A56 Afterburner CO emissions limit requirement (basis: cumulative increase)	Y	
Part 7	A56 Afterburner operating temperature and residence time requirements (basis: cumulative increase)	Y	
Part 8	NOx and NH3 daily emission limits (basis: cumulative increase)	Y	
Part 9	A56 Afterburner operating option linked with NH3 daily emissions (basis: cumulative increase)	Y	
Part 10	A56 Afterburner visible emissions limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 11	Annual source test requirement (basis: cumulative increase)	Y	
Part 12	Record keeping (basis: Regulation 2-6-501; cumulative increase)	Y	

Table IV - BB Source-specific Applicable Requirements

S511 - HSA PRODUCT CONVEYOR,

S512 – HSA PRODUCT SCREENER, S513 – HSA PRODUCT PACKAGING

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

Table IV - CC Source-specific Applicable Requirements S600 - X3 DRIED EXTRUDER, SCREENER, CONVEYORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #13093			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-301)	Y	

Table IV - DD Source-specific Applicable Requirements S601 - X3 FINES SURGE HOPPER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #13094			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Throughput limit requirement (basis: cumulative increase)	Y	
Part 3	Abatement requirement; A601 Baghouse good operating condition and device failure warning requirement (basis:	Y	

Table IV - DD Source-specific Applicable Requirements S601 - X3 FINES SURGE HOPPER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Requirement		(1/11)	Date
	Regulation 6-301, 6-310, 6-311; cumulative increase)		
Part 4	A601 Baghouse air flow rate, and exhaust grain loading limits	Y	
	requirement (basis: cumulative increase)		
Part 5	Record keeping requirement (basis: Regulation 2-6-501;	Y	
	cumulative increase)		

Table IV - EE
Source-specific Applicable Requirements
S602 - X3 ALUMINA SURGE HOPPER

	D. L.C. W.C.	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
#13095			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Throughput limit requirement (basis: cumulative increase)	Y	
Part 3	Abatement requirement; A602 Baghouse good operating	Y	
	condition and device failure warning requirement (basis:		
	Regulation 6-301, 6-310, 6-311; cumulative increase)		
Part 4	A602 Baghouse air flow rate, and exhaust grain loading limits	Y	
	requirement (basis: cumulative increase)		
Part 5	Record keeping requirement (basis: Regulation 2-6-501;	Y	
	cumulative increase)		

Table IV - FF Source-specific Applicable Requirements S603 - X3 EXTRUDER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Odorous Substances (5/21/80)		
Regulation 7			
7-301	General limit	Y	
7-302	Limit at or beyond property line	Y	
7-303	Limit	Y	
7-401	Collection of Samples	Y	
7-402	Analysis of Samples	Y	
7-403	Evaluation apparatus	Y	
7-404	Evaluation Procedure	Y	
7-405	Evaluation Analysis	Y	
7-601	Collection of Samples	Y	
7-602	Sampling Equipment and Techniques for Collection	Y	
BAAQMD			
Condition			
#13096			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Throughput limit requirement (basis: cumulative increase)	Y	
Part 3	Record keeping requirement (basis: Regulation 2-6-501;	Y	
	cumulative increase)		
BAAQMD			
Condition			
#15672			
Part 5	NH3 daily and annual emission limits (basis: cumulative increase)	Y	
Part 11	Annual source test requirement (basis: BACT)	Y	

Table IV - GG Source-specific Applicable Requirements S604 - X3 DRYER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Odorous Substances (5/21/80)		
Regulation 7			
7-301	General limit	Y	
7-302	Limit at or beyond property line	Y	
7-303	Limit	Y	
7-401	Collection of Samples	Y	
7-402	Analysis of Samples	Y	
7-403	Evaluation apparatus	Y	
7-404	Evaluation Procedure	Y	
7-405	Evaluation Analysis	Y	
7-601	Collection of Samples	Y	
7-602	Sampling Equipment and Techniques for Collection	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	SO2 Emission Limit	Y	
BAAQMD			
Condition #13097			
Part 1	Visible emission limit requirement (basis: Regulation 1-301, 6-301)	Y	
Part 2	Abatement requirement (basis: Regulation 6-301, 6-310, 6-311)	Y	
Part 3	A603 Baghouse good operating condition and pressure drop monitoring requirement (basis: Regulation 6-301, 6-310, 6-311, 2-1-403)	Y	
Part 4	A603 Baghouse air flow rate, and exhaust grain loading limits	Y	

Table IV - GG Source-specific Applicable Requirements S604 - X3 DRYER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
	requirement (basis: cumulative increase)		
Part 5	Natural gas fuel only, and usage limit (basis: cumulative increase)	Y	
Part 6	Fuel metering device requirement (basis: cumulative increase)	Y	
Part 7	Record keeping requirement (basis: Regulation 2-6-501;	Y	
	cumulative increase)		
BAAQMD			
Condition			
#15672			
Part 5	NH3 daily and annual emission limits (basis: cumulative increase)	Y	
Part 11	Annual source test requirement (basis: BACT)	Y	

Table IV - HH Source-specific Applicable Requirements S606 - X3 CALCINER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Odorous Substances (5/21/80)		
Regulation 7			
7-301	General limit	Y	
7-302	Limit at or beyond property line	Y	
7-303	Limit	Y	
7-401	Collection of Samples	Y	
7-402	Analysis of Samples	Y	

Table IV - HH Source-specific Applicable Requirements S606 - X3 CALCINER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
7-403	Evaluation apparatus	Y	
7-404	Evaluation Procedure	Y	
7-405	Evaluation Analysis	Y	
7-601	Collection of Samples	Y	
7-602	Sampling Equipment and Techniques for Collection	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide		
Regulation			
9, Rule 1			
9-1-301	Limitations on ground level concentrations	Y	
9-1-311	Emission Limitations for Catalyst Manufacturing Plants	Y	
9-1-311.2	Hourly SO2 limit	Y	
BAAQMD			
Condition			
#15672			
Part 1	Visible emissions limit requirement (basis: Regulation 1-301, 6-	Y	
	301)		
Part 2	Abatement requirement, and device failure warning requirement	Y	
	(basis: BACT)		
Part 3	A604 Baghouse air flow rate and exhaust grain loading	Y	
	requirement (basis: BACT; cumulative increase)		
Part 4	Fuel and fuel usage limits (basis: cumulative increase)	Y	
Part 5	NH3 daily and annual emission limits (basis: cumulative increase)	Y	
Part 6	NOx daily and annual emission limits (basis: cumulative increase)	Y	
Part 7	CO abatement requirement (basis: BACT)	Y	
Part 8	CO abatement efficiency requirement (basis: BACT; cumulative	Y	
	increase)		
Part 9	CO annual emission limit 9basis: BACT; cumulative increase)	Y	
Part 10	Nickel content limit in the material processed (basis: toxic risk	Y	
	screen; cumulative increase)		
Part 11	Annual source test requirement (basis: BACT)	Y	
Part 12	NOx and CO continuous emission monitoring (CEM) requirement	Y	
	(basis: BACT; cumulative increase)		
Part 13	Fuel meter requirement (basis: cumulative increase)	Y	
Part 14	Fuel usage and nickel content record keeping requirement (basis:	Y	

Table IV - HH Source-specific Applicable Requirements S606 - X3 CALCINER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	Regulation 2-6-501; cumulative increase)		

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

Condition # 3344

For S311, Alumina bulk bag unloader

S312, Alumina repackaging station, and

S313, Fines grinder feed hopper system:

- 1. Visible particulate emissions from each source, S311, S312 and S313, shall not exceed Ringelmann 1.0 for 3 consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. The combined bulk throughput at source S311, Bulk Bag Unloader, and S312, Repackaging Station, shall not exceed 12,480 tons during any consecutive twelve-month period. (basis: cumulative increase)
- 3. The total catalyst throughput of at source S313 shall not exceed 4,380 tons during any consecutive twelve-month period. (basis: cumulative increase)
- 4. All particulate emissions from S311 through S313 shall be routed under negative pressure to specified Dust Collector A40. (basis: Regulation 6-301, 6-310, 6-311)
- 5. Emissions from sources S311, S312 and S313 shall be abated by the properly maintained Dust Collector A40 at all times that S311, S312 and S313 are/or in operation. A District approved bag failure warning device shall be installed and maintained on A40 (Dust Collector). (basis: Regulation 6-301, 6-310, 6-311)
- 6. The outlet loading for Dust Collector A40 shall not exceed 0.005 grain/dscf. The airflow rate from A40 shall not exceed 2,900 scfm. (basis: cumulative increase)

7. The nickel content of the material processed in the grinder feed hopper (S313) shall not exceed 7% by weight in any hour. (basis: toxic risk screen)

Condition # 3344

For S311, Alumina bulk bag unloader

- S312, Alumina repackaging station, and
- S313, Fines grinder feed hopper system:
- 8. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of product at source S 311, S312 and S313, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 8444

For S1. X1 Muller:

- 1. Visible particulate emissions from the area dust collector A4 shall not exceed Ringelmann 1.0 for 3 consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. The airflow rate from A4, dust collector, shall not exceed 1,116 SCFM. The outlet loading of the dust collector A4 shall not exceed 0.006 grains/dscf. (basis: cumulative increase)
- 3. Emission from source S1 shall be abated by the properly maintained Dust Collector A4 at all times that S1 is in operation. A district approved bag failure warning device must be in operation at all such times. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)

Condition # 8445

For S401, X2 Muller:

1. Visible particulate emissions from the area dust collector A48 shall not exceed Ringelmann 1.0 for 3 consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation

1-301. (basis: Regulation 1-301, 6-301)

Condition # 8445

For S401, X2 Muller:

- 2. The air flow rate from A48, dust collector, shall not exceed 1,116 SCFM. The outlet loading of the dust collector A48 shall not exceed 0.006 grains/dscf. (basis: cumulative increase)
- 3. Emission from source S401 shall be abated by the properly maintained Dust Collector A48 at all times that S401 is in operation. A district approved bag failure warning device must be in operation at all such times. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)

Condition # 8468

For S314 through S317, Reground fines storage silos,

S318, Fines weigh hopper blow pot,

S319, Fines bagout stations, and

S320, Fines grinder:

- 1. Visible particulate emissions from each source S314 through S320 shall not exceed Ringelmann 1.0 for 3 consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301.(basis: Regulation 1-301, 6-301)
- 2. The total catalyst throughput at each source (S314 through S320) shall not exceed 4,380 tons during any consecutive twelve month period. (basis: cumulative increase)
- 3. Only one silo among sources S314 through S317 shall be in active loading operation from source S313 at any one time. (basis: cumulative increase)
- 4. All particulate emissions from sources S314 through S320 shall be routed under negative pressure to specified Dust Collector A44, A45, A46, or A47. (basis: Regulation 6-301,6-310, 6-311; cumulative increase)

Condition # 8468

For S314 through S317, Reground fines storage silos, S318, Fines weigh hopper blow pot,

S319, Fines bagout stations, and

S320, Fines grinder:

- 5. Emissions from sources S314 through S320 shall be abated by the properly maintained Dust Collector A44, A45, A46 or A47 at all times that S314 through S320 are in operation. A District approved bag failure warning device shall be installed and maintained on A40 (Dust Collector). (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 6. The outlet loading for Dust Collector A44, A45, A46 and A47 shall not exceed 0.005 grain/dscf. The air flow rate from A44, A45, A46 and A47 shall not exceed 3,000 scfm from each unit. (basis: cumulative increase)
- 7. The nickel content of the materials processed by the handling and grinding equipment (S314 through S320) shall not exceed 7% by weight in any hour. (basis: toxic risk screen)
- 8. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of product at source S 318 and S319, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 9315

For S504 through S506, H2 Blending tanks, S507, H2 Liquid/solids blender,

S509, HSA kiln feed conveyor, and

S510, H2 Kiln:

1. Visible particulate emissions from the area dust collector A54 shall not exceed Ringelmann 1.0 for a period or periods aggregating more than three minutes in any hour, or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)

Condition # 9315

For S504 through S506, H2 Blending tanks, S507, H2 Liquid/solids blender, S509, HSA kiln feed conveyor, and S510, H2 Kiln:

- 2. The air flow rate from A54, dust collector, shall not exceed 7,500 SCFM. The outlet loading of the dust collector A54 shall not exceed 0.006 grain/dscf. (basis: cumulative increase)
- 3. Emissions from sources S504 through S507, S509 and S510 shall be abated by the properly maintained Dust Collector A54 at all times that any of the sources S504 through S507, S509 and S510 are in operation. A District approved bag failure warning device must be in operation at all such times. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 4. The operator of Afterburner, A56, shall maintain the afterburner in proper operating condition, including a dedicated fuel meter. (basis: cumulative increase)
- 5. Afterburner A56 shall burn only natural gas, and shall have a District approved temperature monitor. (basis: cumulative increase)
- 6. The CO contribution from A56 shall not exceed 400 ppmv dry at 3% oxygen. (basis: cumulative increase)
- 7. When the Afterburner A56 is being used to abate emissions from S504 through S507, S509 and S 510, the Afterburner A56 shall maintain a minimum operating temperature of 1400 degree Fahrenheit and a minimum residence time of 0.4 second. (basis: cumulative increase)
- 8. The following emission limits from S504 through S507, S509 and S510 shall not be exceeded:
 - a. NOx 120 lb/day
 - b. NH3 2,200 lb/day

Whenever the total ammonia input, calculated as equivalent NH3, to sources S504, through S507, S509 and S510 exceeds 2,200 lb/day, sources S 504, through S507, S509 and S510 shall be abated by the afterburner, A56. When afterburner A56 is in operation, the emissions from A56 shall not exceed:

NOx 120 lb/day NH3 200 lb/day

Condition # 9315

For S504 through S506, H2 Blending tanks, S507, H2 Liquid/solids blender, S509, HSA kiln feed conveyor, and S510, H2 Kiln:

A day shall be defined as an operating day of 24 hours from midnight to midnight. A year shall be defined as any consecutive 12 month period. (basis: cumulative increase)

- 9. Not withstanding the terms of part 8, the operation of the afterburner A56 may be waived for a particular catalyst product and ammonia input if the owner/operator demonstrates through a District approved source test(s) representative of that catalyst product and ammonia input, that the ammonia emissions from sources S504 through S507, S509, and S510 do not exceed 2,200 lb/day. (basis: cumulative increase)
- Visible particulate emissions for A56 shall not exceed Ringelmann 1.0 for a period or periods aggregating more than three minutes in any hour, or result in fallout on adjacent property in such quantities as to cause public nuisance per Regulation 1-301. (basis: Regulation 6-301, 1-301)
- 11. The owner/operator of A56 shall conduct a District approved source test annually with the after burner abatement device in operation and not in operation to demonstrate a net reduction of NH3 emissions from uncontrolled levels per operating day, and to demonstrate compliance with parts 6, 8, and 9. At a minimum, the following emissions will be measured (ppm, lb/hr, lb/day): NOx, NH3, O2, CO, and non-methane hydrocarbons.

The source tests shall be conducted on representative materials processed at S504 through S507, S509 and S510 with representatively high NH3 emissions and representatively high NOx emissions to demonstrate compliance with parts 6, 8 and 9. The test results shall be reported to the District within 30 days of completion of the test.

The owner/operator of A56 shall conduct the source tests annually with no more than 12 months between tests. Furthermore, the District may require at its discretion the owner/operator to conduct up to an additional two source tests annually to demonstrate continuing compliance with parts 6, 8 and 9. (basis: cumulative increase)

Condition # 9315

For S504 through S506, H2 Blending tanks, S507, H2 Liquid/solids blender, S509, HSA kiln feed conveyor, and S510, H2 Kiln:

- 12. To demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log and made available for District inspection for at least five years from the date on which a record was made.
 - a. The natural gas usage of A56, total led on a monthly basis
 - b. The days of operation and type of material processed, daily throughput of each material and daily input of ammonia, calculated as equivalent NH3 at the Calciner Oven, S510, total led on a monthly basis, as necessary to verify compliance with the emission limits of parts 8 and 9 using the emission factors generated in the source tests of part 11.
 - c. All source tests results conducted for compliance with parts 6, 8 and 9. (basis: cumulative increase)

Condition # 9984

For sources S104, S105 and S106, Mixing Tanks:

- 1. Visible particulate emissions from the H-1 Baghouse, A49, shall not reach nor exceed Ringelmann 1.0 for a period or periods aggregating more than three consecutive minutes in any hour, or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 6-301, 1-301)
- 2. The air flow rate from A49, H-1 Baghouse, shall not exceed 3,500 SCFM. The outlet loading of the dust collector A49 shall not exceed 0.006 grains/dscf. (basis: cumulative increase)
- 3. Emissions from sources S104, S105 and S106 shall be abated by the properly maintained H-1 Baghouse, A49, at all times that S104, S105 and/or S106, respectively, are in operation. A district approved bag failure warning device must be in operation at all such times. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)

Condition # 13092

For source S321, Alumina Storage Silo abated by A50 baghouse (A/N 14899):

- 1. Visible particulate emissions from source S321 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 6-301, 1-301)
- 2. The Alumina through put at source S321 shall not exceed 9,636 tons (dry basis) during any consecutive twelve month period. (basis: cumulative increase)
- 3. Emissions from source S321 shall be abated by the properly maintained baghouse A50 at all times that S321 is in operation. A District approved bag failure warning device shall be installed and maintained on A50. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 4. The outlet loading for baghouse A50 shall not exceed 0.006 grain/dscf. The air flow rate from A50 shall not exceed 150 dscfm. (basis: cumulative increase)
- 5. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of Alumina at source S 321, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 13093

For source S600, X-3 Extrudate Screener, Conveyors, and Fugitive emissions (A/N 14899):

1. Visible particulate emissions from source S600 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 6-301, 1-301)

Condition # 13094

For source S601, X-3 Fines Surge Hopper abated by A601 baghouse (A/N 14899):

- 1. Visible particulate emissions from source S601 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 6-301, 1-301)
- 2. The catalyst throughput at source S601 shall not exceed 1,400 tons (dry basis) during any consecutive twelve month period. (basis: cumulative increase)
- 3. Emissions from source S601 shall be abated by the properly maintained baghouse A601 at all times that S601 is in operation. A District approved bag failure warning device shall be installed and maintained on A601. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 4. The outlet loading for baghouse A601 shall not exceed 0.006 grain/dscf. The air flow rate from A601 shall not exceed 100 dscfm. (basis: cumulative increase)
- 5. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of product at source S 601, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 13095

For source S602, X-3 Alumina Surge Hopper abated by A602 dust collector (A/N 14899):

- 1. Visible particulate emissions from source S602 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. The Alumina through put at source S602 shall not exceed 9636 tons (dry basis) during any consecutive twelve month period. (basis: cumulative increase)

Condition # 13095

For source S602, X-3 Alumina Surge Hopper abated by A602 dust collector (A/N 14899):

- 3. Emissions from source S602 shall be abated by the properly maintained baghouse A602 at all times that S602 is in operation. A District approved bag failure warning device shall be installed and maintained on A602. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 4. The outlet loading for baghouse A602 shall not exceed 0.006 grain/dscf. The air flow rate from A602 shall not exceed 200 dscfm. (basis: cumulative increase)
- 5. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of Alumina at source S 602, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 13096

For source S603, X-3 Extruder (A/N 14899):

- 1. Visible particulate emissions from source S603 shall not reach nor exceed Ringelmann 1.0 for 3 consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. The combined throughput at source S603 shall not exceed 31,665 tons (wet basis) during any consecutive twelve month period. (basis: cumulative increase)
- 3. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The daily throughput of product at source S 603, summarized on a monthly basis.
 - b. Total daily hours of operation, summarized on a monthly basis. (basis: Regulation 2-6-501; cumulative increase)

Condition # 13097

For source S604, X-3 Dryer abated by A603 baghouse (A/N 14899):

- 1. Visible particulate emissions from source S604 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. All particulate matter emissions from this source (S604) shall be routed to the Baghouse (A 603). (basis: Regulation 6-301, 6-310, 6-311)
- 3. Baghouse (A603) shall be properly maintained and kept in good operating condition at all times. Baghouse (A603) shall be equipped with a device for measuring the pressure drop across the baghouse. (basis: Regulation 6-301, 6-310, 6-311, 2-1-403)
- 4. The outlet loading for baghouse A603 shall not exceed 0.006 grain/dscf. The air flow rate from A603 shall not exceed 12,000 dscfm. (basis: Cumulative Increase)
- 5. The total combined fuel usage at source S604 shall not exceed 534,360 therms in any consecutive 12 month period. Only natural gas shall be burned at S604. (basis: Cumulative Increase)
- 6. The owner/operator shall install and maintain a non-resettable totalizing fuel meter for natural gas, unless the owner/operator applies for and receives written approval from the District to use an alternate method for measuring the cumulative annual fuel usage. (basis: Cumulative Increase)
- 7. In order to demonstrate compliance with the above conditions, the owner/operator shall keep records of the natural gas usage of S604, totaled on a monthly basis. Records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made. (basis: Regulation 2-6-501; Cumulative Increase)

Condition # 13099

For sources S2 (X-1) and S407 (X-2) Dryers, abated by A6 and A57 baghouses, respectively (A/N 14899):

- 1. Visible particulate emissions from each source, S2 or S407, shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1- 301. (basis: Regulation 1- 301, 6-301)
- 2. Emissions from source S2 or S407, shall be abated by the properly maintained baghouses A-6 or A-57, respectively, at all times that S2 or S407 are in operation. A District approved bag failure warning device shall be installed and maintained on A-6 and A-57 baghouses. (basis: Regulation 6-301, 6-310, 6-311; cumulative increase)
- 3. The outlet loading for baghouses A-6 or A-57 shall not exceed 0.006 grain/dscf each. The air flow rate from A-6 or A-57 shall not exceed 8,000 dscfm each. (basis: cumulative increase)

Condition # 13100

Permit conditions for Sources S7 (X-1 Kiln) and S413(X-2 Kiln) abated by A-2 and A-43 baghouses, respectively. S7 and S413 are also abated by A-58 Selective Catalyst Reduction System (A/N 14899):

- 1. Visible particulate emissions from each source S7 or S413 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. Emissions from source S7 or S413 shall be abated by the properly maintained baghouse A-2 and A-43, respectively, and SCR A-58 at all times that S7 or S413 is in operation. A District approved bag failure warning device shall be installed and maintained on A-3 and A-43 baghouses. (basis: Regulation 6-301, 6-310, 6-311)
- 3. The outlet loading for baghouse A-7 and/or A-43 shall not exceed 0.006 grain/dscf each. The air flow rate from A-3 and A-43 shall not exceed 8,000 dscfm, combined. (basis: cumulative increase)

Condition # 13100

Permit conditions for Sources S7 (X-1 Kiln) and S413(X-2 Kiln) abated by A-2 and A-43 baghouses, respectively. S7 and S413 are also abated by A-58 Selective Catalyst Reduction System (A/N 14899):

- 4. The total combined fuel usage at source S7 shall not exceed 700,000 therms in any consecutive 12 month period. Only natural gas shall be burned at S7. (basis: cumulative increase)
- 5. The total combined fuel usage at source S413 shall not exceed 700,000 therms in any consecutive 12 month period. Only natural gas shall be burned at S413. (basis: cumulative increase)
- 6. The NOx emissions from sources S7 and S413 through P-43 shall not exceed: 58 lb/day or 21,000 lb/yr. A day shall be defined as an operating day of 24 hours from midnight to midnight. A year shall be defined as any consecutive 12 month period. (basis: cumulative increase)
- 7. The plant shall conduct a District approved source test on the dust collector to demonstrate compliance with the 0.006 grain/dscf or less outlet grain loading, as specified in part 3. The source test shall be conducted with source S7 and/or S413, X-1 and/or X-2 Kilns operating at or near their full rated capacity of 1,680 lb/hr. (basis: cumulative increase)
- 8. To demonstrate compliance with parts 6 and 7, the owner/operator of S7, S413, A-2, A-43 and A-58 shall install and maintain a District approved continuous emission monitor (CEM) for NOx. (basis: cumulative increase)
- 9. The owner/operator of S7 and S413 shall install and maintain non-resettable totalizing fuel meters for natural gas for each source, unless the owner/operator applies for and receives written approval from the District to use an alternate method for measuring the cumulative annual fuel usage. (basis: cumulative increase)
- 10. In order to demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of five years from the date on which a record was made.
 - a. The natural gas usage of S7 and S413, totaled on a monthly basis (basis: Regulation

2-6-501, cumulative increase)

Condition # 13138

For S110 through S114, Product Packaging Operation (A/N 25609):

- 1. Visible particulate emissions from the Baghouse, A-14, shall not exceed Ringelmann 1.0 for three or more consecutive minutes in any hour, or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. The outlet loading of the dust collector A-14 shall not exceed 0.006 grains/dscf and the total particulate emissions from the collector shall not exceed 0.390 pounds per hour. (basis: cumulative increase)
- 3. Emissions from sources S110, S111, S112, S113 and S114 shall be abated by the properly maintained Baghouse, A-14, at all times that S110 through S114 are in operation. A district approved bag failure warning device must be in operation at all such times. (basis: Regulation 6- 301, 6-310; cumulative increase)

Condition # 15672

For Source S606 (X-3 Calciner) abated by A-604 baghouse, A-605 Selective Catalyst Reduction System, And A-606 CO Catalyst A/N 18507:

- 1. Visible particulate emissions from source S606 shall not exceed Ringelmann 1.0 for 3 or more consecutive minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulation 1-301, 6-301)
- 2. Emissions from source S606 shall be abated by the properly maintained baghouse A-604 and SCR A-605 at all times that S606 is in operation. A District approved bag failure warning device shall be installed and maintained on A-604 baghouse.(basis: BACT)
- 3. The out let loading for baghouse A-604 shall not exceed 0.006 grain/dscf. The air flow rate from A-604 shall not exceed 1,736 dscfm. (basis: BACT; cumulative increase)

Condition # 15672

For Source S606 (X-3 Calciner) abated by A-604 baghouse, A-605 Selective Catalyst Reduction System, And A-606 CO Catalyst (A/N 18507):

- 4. The total combined fuel usage at source S606 shall not exceed 700,000 therms in any consecutive 12 month period. Only natural gas shall be burned at S606. (basis: Cumulative Increase)
- 5. The ammonia emissions from sources S603, S604 and S606 through P-603 shall not exceed 490 lb/day or 48,000 lb/yr. A day shall be defined as an operating day of 24 hours from midnight to midnight. A year shall be defined as any consecutive 12 month period. (basis: Cumulative Increase)
- 6. The NOx emissions from S606 (Calciner) shall not exceed 51 lb/day or 18,500 lb/yr. A day shall be defined as an operating day of 24 hours from midnight to midnight. A year shall be defined as any consecutive 12 month period. (basis: Cumulative Increase)
- 7. The CO Catalyst Oxidizer A-606 shall abate CO emissions from the X3 Calciner S606 at all times the source S606 is in operation. (basis: BACT)
- 8. The percent CO abatement efficiency of the CO Catalyst Oxidizer A-606 shall be at least 90% on a mass basis; the percent CO abatement efficiency of the CO Catalyst Oxidizer A-606 shall be calculated on a rolling average of the last eight (8) hours of conversion data for which the inlet concentration is above two hundred parts per million on a volumetric basis (200 ppmv). The outlet CO concentration from A-606 shall not exceed 25 ppmv, when the inlet CO concentration to A-606 is less than or equal to 200 ppmv. The unit shall be considered in violation whenever the rolling 8-hour average percent CO conversion is below ninety percent (90%), on a mass basis, and the CO concentration at the A-606 inlet is greater than 200 ppmv. The unit shall also be considered in violation whenever the outlet CO concentration from A-606 exceeds 25 ppmv, and the inlet CO concentration to A-606 is less than or equal to 200 ppmv. (basis: BACT; cumulative increase)
- 9. The CO emissions from S606 (Calciner) shall not exceed19,524 lb/yr. (basis: Cumulative Increase; BACT)
- 10. The nickel content of the materials processed in S603, S604 and S606 shall not exceed an average of 0.84 % by weight during any consecutive twelvementh period. (basis: toxic risk screen; Cumulative Increase)

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VI. Permit Conditions

Condition # 15672

For Source S606 (X-3 Calciner) abated by A-604 baghouse, A-605 Selective Catalyst Reduction System, And A-606 CO Catalyst (A/N 18507):

- 11. The owner/operator of S603 through S606 shall conduct source tests annually with baghouses A-603, A-604 and SCR A-605 in operation to determine compliance with part 5, with no more than 12 months between tests. Furthermore, at the District's discretion, the District may require the owner/operator to conduct up to an additional two source tests annually to determine continuing compliance with part 5. (basis: BACT)
- 12. To demonstrate compliance with parts 6, 8 and 9, the owner/operator of S606 shall in stall and maintain District approved continuous emission monitors (CEM) for NOx and CO. An alternative to a continuous emission monitor for CO may be used to demonstrate compliance with Condition 8 and 9, upon written approval by the District. (basis: Cumulative Increase; BACT)
- 13. The owner/operator shall install and maintain a non-re settable totalizing fuel meter for natural gas, unless the owner/operator applies for and receives written approval from the District to use an alternate method for measuring the cumulative annual fuel usage. (basis: Cumulative Increase)
- 14. In order to demonstrate compliance with the above conditions, the following records shall be kept onsite and made available for District inspection for a period of five years from the date on which are cord was made.
 - a. The natural gas usage of S606, totaled on a monthly basis
 - b. The nickel weight percent of each material processed in S603, S604 and S606. The weight average shall be calculated on a monthly basis. (basis: Regulation 2-6-501; Cumulative Increase)

Condition # 16314

For S109, Kiln:

- 1. Total material processed at S109 shall not exceed 2200 tons per any consecutive 12 month period. (basis: cumulative increase)
- 2. The exhaust from S109 shall always be vented through a baghouse, A-15, before being routed to A-12, incinerator. (basis: Regulation 6-301, 6-310, 6-311)

3. The grain loading of the exhaust from the baghouse, A-15, shall not exceed 0.006 gr/dscf. The baghouse shall be maintained in good operating condition at all times

Condition # 16314

For S109, Kiln:

S109 is operational. A District approved bag failure warning device shall be installed and maintained on A-15. (basis: cumulative increase)

4. In order to demonstrate compliance with part 1, the material throughput at S109 shall be recorded in a District approved logbook. The records shall be kept on site for at least 5 years from the date of recording, and be made available to the District staff for inspection. (basis: Regulation 2-6-501; cumulative increase)

Condition # 16550

For S223 through S231:

(Administratively amended on 7/17/2000; Revised: Application #1846)

- 1. The material throughput at S223 through S231 shall not exceed the following limits per consecutive 12 month period.
 - a. Material not containing any toxic compound listed in the Table 2-1-316 = 15.005 Million pounds
 - b. Total recycled fines = 0.98 Million pounds including a maximum of 18,477 pounds of hexavalent chromium containing fines
 - c. Chromium oxide = 24,007 pounds (basis: cumulative increase; toxic risk screen)
- 2. The grain loading of exhaust from the baghouse, A-26 shall not exceed 0.01 gr/dscf. The exhaust flow rate from the baghouse shall not exceed 840 dscf. (basis: Regulation 6-310; cumulative increase)
- 3. Visible particulate emissions from the baghouse, A-26, shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause public nuisance. (basis: Regulation 1-301, 6-301)
- 4. In order to demonstrate compliance with part #1, the owner/operator of the sources, S223 through S231, shall keep dated records of all material throughput in a District approved logbook. The records shall be kept on- site for at least five years from the date of data entry, and shall be made available to the District staff for inspection. (basis: cumulative increase; Regulation 2-6-501)

Condition # 16736

For S11, S19, S216, S220, S221, S222, S417, S418, S515, S516, S517, S518, S519, and S520:

1. The material throughput at these sources shall not exceed the following limits per consecutive 365 day period.

S11:11,000 tons; S19:3,667 tons; S216:8,000 tons;

S220: 500 tons including 3.35 tons of hexavalent chromium;

S221 : 500 tons; S222 : 900 tons; S417 : 12,000 tons; S418 : 12,000 tons; S515 : 1,700 tons; S516 : 3,300 tons; S517 : 16,000 tons; S519 : 16,000 tons. S520 : 16,000 tons

(basis: cumulative increase)

- 2. The total particulate grain loading of exhaust from the baghouse, A-23, shall not exceed 0.01 gr/dscf. This limit will be revised after reviewing the source test results as required per condition #4 below. (basis: TBACT; Toxic risk screen)
- 3. Hexavalent chromium emissions from the operation of S220 shall not exceed 0.415 lb/yr (4.74E-5 lb/hr). (basis: Toxic risk screen)
- 4. A District approved source test shall be conducted in accordance with the District's Manual of Procedures to demonstrate compliance with parts #2 and #3 mentioned above and with BAAQMD Regulation 6-310. The source test shall be conducted on A-23 while it is exclusively abating S220, and the material being processed contains the highest percentage of hexavalent chromium. The test shall be performed at the earliest opportunity when the representative materials are processed. The District shall be contacted to discuss an alternate source testing schedule if representative materials containing hexavalent chromium have not been processed within 12 months of the permit issuance. The manager of the Source Test Section of the District shall be notified at least seven (7) days prior to the test date. A copy of the test report shall be submitted to the District within 30 days of the test date. Such source test shall be conducted annually or at the first opportunity the representative materials are processed after 12 months of the previous test with a copy of the test report submitted to the

Condition # 16736

For S11, S19, S216, S220, S221, S222, S417, S418, S515, S516, S517, S518, S519, and S520:

District. Source test report shall be kept on-site for at least five years from the date of the source test, and be made available to the District staff for inspection. (basis: Regulation 6-310; TBACT; Toxic risk screen)

- 5. Visible particulate emissions from the baghouses, A-3, A-22, A-23, A-42, A-52, A-53, and A-55 shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause public nuisance. (basis: Regulation 1-301, 6-301)
- 6. In order to demonstrate compliance with part #1, the owner/operator of these sources shall keep daily records of material throughput in a District approved logbook. The records shall be kept on-site for at least five years from the date of data entry, and shall be made available to the District staff for inspection. (basis: cumulative increase)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S1 - X1 MULLER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #8444, part 3	С	Bag failure warning device
	BAAQMD condition #8444, part	Y		Ringelmann 0.5	BAAQMD condition #8444, part 3	С	Bag failure warning device
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD condition #8444, part 3	С	Bag failure warning device
	BAAQMD 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQMD condition #8444, part 2	Y		0.006 gr/dscf	BAAQMD condition #8444, part 3	С	Bag failure warning device
Air flow rate	BAAQMD condition 8444, part 2	Y		1,116 scfm		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S2 - X1 DRYER
S407 - X2 DRYER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM	Y		Ringelmann 1.0 for	BAAQMD	С	Bag failure
	D 6-301			< 3 minutes/hr	condition #13099, part 2		warning device
	BAAQM	Y		Ringelmann 0.5	BAAQMD	С	Bag failure
	D condition #13099,				condition #13099, part 2		warning device
FP	part 1 BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD condition #13099, part 2	С	Bag failure warning device
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQM D condition #13099, part 3	Y		0.006 gr/dscf	BAAQMD condition #13099, part 2	С	Bag failure warning device
Air flow rate	BAAQM D condition 13099, part 3	Y		8,000 scfm		N	
SO2	BAAQM D 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQM D 9-1- 311.2	Y		50 lbs/hr		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C

Applicable Limits and Compliance Monitoring Requirements

S3 - X1 DRIED PRODUCT ELEVATOR

 $S4-X1\ Dried\ Product\ Screener$

S5 - X1 LONG BREAKER

S6 - X1 KILN FEED CONVEYOR SYSTEM

S8 - X1 CALCINED PRODUCT ELEVATOR

S9 - X1 CALCINED PRODUCT SCREENER

S10 - X1 CALCINED PRODUCT PACKAGING

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - D

Applicable Limits and Compliance Monitoring Requirements

S7 - X1 KILN

S413 - X2 KILN

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for	BAAQMD	С	Bag failure
	D 6-301			< 3 minutes/hr	condition		warning
					#13100, part 2		device
FP	BAAQM	Y		0.15 gr/dscf	BAAQMD	С	Bag failure
	D 6-310				condition		warning
					#13100, part 2		device
	BAAQM	Y		4.10P ^{0.67} lb/hr,		N	
	D 6-311			where P is process			
				weight, ton/hr			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D Applicable Limits and Compliance Monitoring Requirements S7 - X1 KILN S413 - X2 KILN

Tymo of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Manitoning
Type of Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Monitoring Type
FP	BAAQM	Y	Date	0.006 gr/dscf	BAAQMD	(17C/14)	Bag failure
11	D	1		0.000 gi/usei	condition	C	warning
	condition				#13100, part 2		device
	#13100,				#13100, part 2		device
	part 3						
Air flow	BAAQM	Y		8,000 scfm		N	
rate	D			,			
	condition						
	#13100,						
	part 3						
NOx	BAAQM	Y		58 lb/day or 21,000	BAAQMD	С	CEM
	D			lb/yr	condition		
	condition			,	#13100, part 8		
	#13100,						
	part 6						
Natural	BAAQM	Y		700,000 therms at	BAAQMD	С	Fuel meter,
gas	D			S7	condition		record
	condition				#13100, part 9		keeping
	#13100,				& 10		
	part 4						
	BAAQM	Y		700,000 therms at	BAAQMD	C	Fuel meter,
	D			S413	condition		record
	condition				#13100, part 9		keeping
	#13100,				& 10		
	part 5						
SO2	BAAQM	Y		GLC of 0.5 ppm for		N	
	D 9-1-301			3 min. or 0.25 ppm			
				for 60 min. or 0.05			
				ppm for 24 hours			
	BAAQM	Y		50 lbs/hr		N	
	D 9-1-						
	311.2						

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S11 - X1 CALCINED PRODUCT CONVEYOR

Type of	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301, Condition # 16736,	Y	Date	Ringelmann 1.0 for < 3 minutes/hr	Citation	N	Туре
FP	part 5 BAAQM D 6-310	Y		0.15 gr/dscf		N	
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
Through -put	BAAQM D condition #16736, part 1	Y		11,000 tons/yr	BAAQMD condition #16736, part 6	P/D	Record keeping

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S19 - X1 RECYCLE STATION

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			

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Table VII - F Applicable Limits and Compliance Monitoring Requirements S19 - X1 RECYCLE STATION

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through	BAAQM	Y		3,667 tons/yr	BAAQMD	P/D	Record
-put	D				condition		keeping
	condition				#16736, part 6		
	#16736,						
	part 1						

$\label{eq:conditional} \textbf{Table VII} - \textbf{G} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\$

S104 - H1 BLENDING TANK T-1

S105 - H1 BLENDING TANK T-2

S106 - H1 BLENDING TANK T-3

Type of	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301, Condition 9984, part	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #9984, part 3	C	Bag failure warning device
FP	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD condition #9984, part 3	С	Bag failure warning device
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQM D condition #9984, part 2	Y		0.006 gr/dscf	BAAQMD condition #9984, part 3	С	Bag failure warning device
Air flow rate	BAAQM D condition #9984, part 2	Y		3,500 scfm		N	

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S107 - H1 LIQUID/SOLID BLENDER

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре

Table VII - H Applicable Limits and Compliance Monitoring Requirements S107 - H1 LIQUID/SOLID BLENDER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			

 $\begin{tabular}{ll} Table~VII-I\\ Applicable~Limits~and~Compliance~Monitoring~Requirements\\ S109-O4~KILN\\ \end{tabular}$

T	GI. II		Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
	BAAQM	Y		0.006 gr/dscf		N	
	D						
	condition						
	#16314,						
	part 3						
SO2	BAAQM	Y		GLC of 0.5 ppm for 3		N	
	D 9-1-301			min. or 0.25 ppm for			
				60 min. or 0.05 ppm			
				for 24 hours			
	BAAQM	Y		50 lbs/hr		N	
	D 9-1-						
	311.2						
Through	BAAQM	Y		2200 tons/yr	BAAQMD	P/D	Record
-put	D				condition		keeping
	condition				#16314, part 4		
	#16314,						
	part 1						

Table VII - J Applicable Limits and Compliance Monitoring Requirements \$110 - O4 CALCINED PRODUCT COOLER \$111 - O4 CALCINED PRODUCT ELEVATOR \$112 - O4 CALCINED PRODUCT SCREENER \$113 - O4 CALCINED PRODUCT PACKAGING \$114 - O4 KILN HOPPER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <	BAAQMD	С	Bag failure
	D 6-301,			3 minutes/hr	condition		warning
	condition				#13138, part 3		device
	#13138						
	part 1						
FP	BAAQM	Y		0.15 gr/dscf	BAAQMD	С	Bag failure
	D 6-310				condition		warning
					#13138, part 3		device
	BAAQM	Y		$4.10P^{0.67}$ lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
	BAAQM	Y		0.006 gr/dscf	BAAQMD	С	Bag failure
	D				condition		warning
	condition				#13138, part 3		device
	#13138,						
	part 2						
	BAAQM	Y		0.39 lb/hr	BAAQMD	С	Bag failure
	D				condition		warning
	condition				#13138, part 3		device
	#13138,						
	part 2						

Table VII - K
Applicable Limits and Compliance Monitoring Requirements
S201 - O5 MULLER

Tymo of	Citation	FE	Future Effective		Monitoring	Monitoring	Monitoring
Type of					Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - L
Applicable Limits and Compliance Monitoring Requirements
S205 - O5 DRYER
S206 - O5 KILN

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requiremen t Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
SO2	BAAQM	Y		GLC of 0.5 ppm for 3		N	
	D 9-1-301			min. or 0.25 ppm for			
				60 min. or 0.05 ppm			
				for 24 hours			
	BAAQM	Y		50 lbs/hr		N	
	D 9-1-						
	311.2						

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - N Applicable Limits and Compliance Monitoring Requirements \$216 - O5 NORTH ELEVATOR \$221 - O5 RECYCLE HOPPER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301,			3 minutes/hr			
	Condition						
	#16736,						
	part 5						
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - N Applicable Limits and Compliance Monitoring Requirements \$216 - O5 NORTH ELEVATOR \$221 - O5 RECYCLE HOPPER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Through	BAAQM	Y		8,000 tons/yr for	BAAQMD	P/D	Record
-put	D			S216;	condition		keeping
	condition			500 tons/yr for S221	#16736, part 6		
	#16736,						
	part 1						

Table VII - O Applicable Limits and Compliance Monitoring Requirements S220 - O5 REPACKAGING STATION S222 - O5 GRINDER FEED HOPPER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <	Condition	P/W	Visual
	D 6-301,			3 minutes/hr	#16736, part 5		Inspection
	Condition						
	#16736,						
	part 5						
FP	BAAQM	Y		0.15 gr/dscf	BAAQMD	P/E/A	Source test
	D 6-310				6-310		
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
	BAAQM	Y		0.01 gr/dscf	BAAQMD	P/E/A	Source test
	D				condition.		
	condition				#16736, part 4		
	#16736,						
	part 2						

Table VII - O Applicable Limits and Compliance Monitoring Requirements S220 - O5 REPACKAGING STATION S222 - O5 GRINDER FEED HOPPER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Hexa-	BAAQM	Y		0.415 lb/yr	BAAQMD	P/E/A	Source test
valent	D				condition		
Chro-	condition				#16736, part 4		
mium	#16736,						
	part 3						
Through	BAAQM	Y		500 tons/yr	BAAQMD	P/D	Record
-put	D			including 3.35	condition		keeping
	condition			tons/yr of	#16736, part 6		
	#16736,			hexavalent			
	part 1			chromium for S220;			
				900 tons/yr for S222			

Table VII - P
Applicable Limits and Compliance Monitoring Requirements
S223-S231, O5 POWDER BATCHING HOPPERS

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Opacity	BAAQM D 6-301, condition 16550, part 3	Y		Ringelmann 1.0 for < 3 minutes/hr		N	
FP	BAAQM D 6-310	Y		0.15 gr/dscf		N	
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	

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Table VII - P
Applicable Limits and Compliance Monitoring Requirements
S223-S231, O5 POWDER BATCHING HOPPERS

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
	BAAQM D condition #16550, part 2	Y		0.01 gr/dscf		N	
Throughpu t (Chromium oxide)	BAAQM D condition #16550, part 1	Y		24,007 lb/yr	BAAQMD condition #16550, part 4	P/D	Record keeping
Throughpu t (recycled fines)	BAAQM D condition #16550, part 1	Y		0.98 Million lb/yr	BAAQMD condition #16550, part 4	P/D	Record keeping
Throughpu t (hexavalent chromium)	BAAQM D condition #16550, part 1	Y		18,477 lb/yr	BAAQMD condition #16550, part 4	P/D	Record keeping
Throughpu t (Non- toxic materials)	BAAQM D condition #16550, part 1	Y		15.005 Million lb/yr	BAAQMD condition #16550, part 4	P/D	Record keeping

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Table VII - Q Applicable Limits and Compliance Monitoring Requirements \$303 - Alumina Receiving Fluidstat Station \$309 - Alumina Recirculation Fluidstat Station \$310 - Alumina Measuring Fluidstat Station

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - R Applicable Limits and Compliance Monitoring Requirements \$304 - Alumna Silo 1

S305 – ALUMINA SILO 2, S306 – ALUMINA SILO 3

S307 – ALUMINA SILO 4, S308 – ALUMINA SILO 5

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - S Applicable Limits and Compliance Monitoring Requirements S311 - ALUMINA BULK BAG UNLOADER S312 - ALUMINA REPACKAGING STATION S313 - FINES GRINDER FEED HOPPER SYSTEM

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	Y		Ringelmann 1.0	BAAQMD	С	Bag failure
	6-301,			for < 3 minutes/hr	condition		warning
	condition				#3344, part 5		device
	#3344, part 1						
FP	BAAQMD	Y		0.15 gr/dscf	BAAQMD	С	Bag failure
	6-310				Condition		warning
					#3344, part 5		device
	BAAQMD	Y		4.10P ^{0.67} lb/hr,		N	
	6-311			where P is			
				process weight,			
				ton/hr			
	BAAQMD	Y		0.005 gr/dscf	BAAQMD	С	Bag failure
	condition				condition.		warning
	#3344, part 6				#3344, part 5		device
Nickel	BAAQMD	Y		7% by weight per	BAAQMD	P/H	Record
content	condition			hour at S313	condition		keeping
	#3344, part 8				#3344, part 9		
Through	BAAQMD	Y		12,480 tons/yr for	BAAQMD	P/D	Record
-put	condition			S311 and S312	condition		keeping
(bulk)	#3344, part 2				#3344, part 9		
Through	BAAQMD	Y		4,380 tons/yr for	BAAQMD	P/D	Record
-put	condition			S313	condition		keeping
(catalyst)	#3344, part 3				#3344, part 9		
Air flow	BAAQMD	Y		2,900 scfm		N	
rate	condition						
	#3344, part 6						

Table VII - T

Applicable Limits and Compliance Monitoring Requirements

S314 - REGROUND FINES STORAGE SILO TK-70112

S315 - REGROUND FINES STORAGE SILO TK-70113

S316 - REGROUND FINES STORAGE SILO TK-70114

S317 - REGROUND FINES STORAGE SILO TK-70115

S318 - FINES WEIGH HOPPER BLOW POT

S319 - FINES BAGOUT STATION NO.1 & No.2

S320 - FINES GRINDER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #8468, part 5	С	Bag failure warning device
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD condition #8468, part 5	С	Bag failure warning device
	BAAQMD 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQMD condition #8468, part 6	Y		0.005 gr/dscf	BAAQMD condition. #8468, part 5	С	Bag failure warning device
Nickel content	BAAQMD condition #8468, part 8	Y		7% by weight per hour	BAAQMD condition #3344, part 9	P/H	Record keeping
Through -put (catalyst)	BAAQMD condition #8468, part 2	Y		4,380 tons/yr for each source	BAAQMD condition #8468, part 9	P/D	Record keeping
Air flow rate	BAAQMD condition #8468, part 6	Y		3,000 scfm from each source		N	

Table VII - U
Applicable Limits and Compliance Monitoring Requirements
S321 - ALUMINA STORAGE SILO

Type of	Citation of		Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit Opacity	BAAQM D 6-301	Y/N Y	Date	Ringelmann 1.0 for < 3 minutes/hr	Citation BAAQMD Condition	(P/C/N)	Type Bag failure warning
	BAAQM D 6-310	Y		0.15 gr/dscf	#13092, part 3 BAAQMD condition	С	device Bag failure warning
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	#13092, part 3	N	device
	BAAQM D condition #13092,	Y		0.005 gr/dscf	BAAQMD condition. #13092, part 3	С	Bag failure warning device
Through -put (Alumina)	part 4 BAAQM D condition #13092, part 2	Y		9,636 tons/yr	BAAQMD condition #13092, part 5	P/D	Record keeping
Air flow rate	BAAQM D condition #13092, part 4	Y		150 scfm		N	

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 $\begin{tabular}{ll} Table\ VII\ -\ V\\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements\\ S401\ -\ X2\ MULLER \end{tabular}$

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #8445, part 3	С	Bag failure warning device
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD condition #8445, part 3	С	Bag failure warning device
	BAAQMD 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQMD condition #8445, part 2	Y		0.006 gr/dscf	BAAQMD condition. #8445, part 3	С	Bag failure warning device
Air flow rate	BAAQMD condition #8445, part 2	Y		1,116 scfm		N	

Table VII - W

Applicable Limits and Compliance Monitoring Requirements

S408 - X2 DRIED PRODUCT ELEVATOR

S409 - X2 DRIED PRODUCT SCREENER

S410 - X2 LONG BREAKER, S412 - X2 KILN FEED CONVEYOR

S414 - X2 CALCINED PRODUCT ELEVATOR

S415 - X2 CALCINED PRODUCT SCREENER

S416 - X2 CALCINED PRODUCT PACKAGING

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			

Table VII - W

Applicable Limits and Compliance Monitoring Requirements

S408 - X2 DRIED PRODUCT ELEVATOR

S409 - X2 DRIED PRODUCT SCREENER

S410 - X2 LONG BREAKER, S412 - X2 KILN FEED CONVEYOR

S414 - X2 CALCINED PRODUCT ELEVATOR

S415 - X2 CALCINED PRODUCT SCREENER

S416 - X2 CALCINED PRODUCT PACKAGING

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
FP	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII - X

Applicable Limits and Compliance Monitoring Requirements

S417 - X2 CALCINED PRODUCT CONVEYOR

S418 – X2 RECYCLE STATION

S515 – H2 SOLID ADDITIVE HOPPER A

S516 – H2 SOLID ADDITIVE HOPPER B

S517 – H2 PRODUCT RECYCLE SYSTEM

S518 – H2 CALCINED FEED SYSTEM

S519 – H2 SPHERICAL HOPPER SYSTEM

S520 - H2 CALCINED FEED BAGOUT STATION

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301,			3 minutes/hr			
	condition						
	#16736,						
	part 5						
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						

Table VII - X

Applicable Limits and Compliance Monitoring Requirements

S417 - X2 CALCINED PRODUCT CONVEYOR

S418 - X2 RECYCLE STATION

S515 – H2 SOLID ADDITIVE HOPPER A

S516 - H2 SOLID ADDITIVE HOPPER B

S517 - H2 PRODUCT RECYCLE SYSTEM

S518 – H2 CALCINED FEED SYSTEM

S519 - H2 SPHERICAL HOPPER SYSTEM

S520 - H2 CALCINED FEED BAGOUT STATION

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Through	BAAQM	Y		S417: 12,000 tons/yr	BAAQMD	P/D	Record
-put	D			S418: 12,000 tons/yr	condition		keeping
	condition			S515: 1,700 tons/yr	#16736, part 6		
	#16736,			S516: 3,300 tons/yr			
	part 1			S517: 16,000 tons/yr			
				S518: 16,000 tons/yr			
				S519: 16,000 tons/yr			
				S520: 16,000 tons/yr			

Table VII - Y
Applicable Limits and Compliance Monitoring Requirements
S420 - COLD CLEANER

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Through	BAAQM	Y		20 gallons/yr	BAAQMD	P/Annual	Record
put	D8-16-121				8-16-501.2,		keeping
					8-16-501.6		

Table VII – Z Applicable Limits and Compliance Monitoring Requirements \$502 - NICKEL SOLUTION TANK

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Ni	BAAQM	Y		0.73 lb/yr	BAAQMD	P/Annual	Record
	D				2-1-316.1		keeping
	Regulatio						
	n 2-1,						
	Table 2-1-						
	316						

Table VII – AA

Applicable Limits and Compliance Monitoring Requirements

S504 - H2 BLENDING TANK T-1

S505 – H2 BLENDING TANK T-2

S506 – H2 BLENDING TANK T-3

S507 - H2 LIQUID/SOLID BLENDER

S509 - HSA KILN FEED CONVEYOR

S510 – H2 Kiln

Type of Limit	Citation of Limit	FE Y/N	Future Effectiv e Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #9315, part 3	С	Bag failure warning device
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD condition #9315, part 3	С	Bag failure warning device
	BAAQMD 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQMD condition #9315, part 2	Y		0.006 gr/dscf	BAAQMD condition #9315, part 3	С	Bag failure warning device

Table VII – AA

Applicable Limits and Compliance Monitoring Requirements

S504 - H2 BLENDING TANK T-1

S505 - H2 BLENDING TANK T-2

S506 – H2 BLENDING TANK T-3

S507 – H2 LIQUID/SOLID BLENDER

S509 - HSA KILN FEED CONVEYOR

S510 – H2 Kiln

				5510 – 112 IXII	1		
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effectiv		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	e Date	Limit	Citation	(P/C/N)	Type
Air flow	BAAQMD	Y		7,500 scfm		N	
rate	condition						
	#9315, part 2						
NOx	BAAQMD	Y		120 lb/day	BAAQMD	P/A and D	Source test
	condition				condition		(A), Record
	#9315, part 8				#9315, part 11		keeping (D)
					& 12		
NH3	BAAQMD	Y		2,200 lb/day, and	BAAQMD	P/A and D	Source test
	condition			200 lb/day (when	condition		(A), Record
	#9315, part 8			A-56 in	#9315, part 11		keeping (D)
				operation)			
CO	BAAQMD	Y		400 ppmv dry @	BAAQMD	P/A	Source test
	condition			3% Oxygen	condition		
	#9315, part 6				#9315, part 11		
Temp-	BAAQMD	Y		1400 degree F	BAAQMD	С	Temperature
erature	condition				condition		Monitor
(A-56)	#9315, part 7				#9315, part 5		
Residence	BAAQMD	Y		0.4 second	BAAQMD	P/A	Source test
time	condition				condition		
(A-56)	#9315, part 7				#9315, part 11		

Table VII - BB Applicable Limits and Compliance Monitoring Requirements S511 - HSA PRODUCT CONVEYOR S512 - HSA PRODUCT SCREENER S513 - HSA PRODUCT PACKAGING

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301			3 minutes/hr			
FP	BAAQM	Y		0.15 gr/dscf		N	
	D 6-310						
	BAAQM	Y		4.10P ^{0.67} lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			

Table VII – CC
Applicable Limits and Compliance Monitoring Requirements S600 - X3 DRIED EXTRUDER, SCREENER, CONVEYOR

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for		N	
	D 6-301,			< 3 minutes/hr			
	condition						
	#13093,						
	part 1						

Table VII - DD

Applicable Limits and Compliance Monitoring Requirements
S601 - X3 FINES SURGE HOPPER

TD 6	C'1 11 C	EE	Future		Monitoring	Monitoring	
Type of Limit	Citation of	FE Y/N	Effective	Limit	Requirement Citation	Frequency	Monitoring
	Limit		Date			(P/C/N)	Туре
Opacity	BAAQM	Y		Ringelmann 1.0 for <		С	Bag failure
	D 6-301,			3 minutes/hr	Condition		warning
	condition				#13094, part 3		device
	#13094,						
	part 1						
FP	BAAQM	Y		0.15 gr/dscf	BAAQMD	C	Bag failure
	D 6-310				Condition		warning
					#13094, part 3		device
	BAAQM	Y		$4.10P^{0.67}$ lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
	BAAQM	Y		0.006 gr/dscf	BAAQMD	C	Bag failure
	D				Condition		warning
	condition				#13094, part 3		device
	#13094,						
	part 4						
Air flow	BAAQM	Y		100 scfm		N	
rate	D						
	condition						
	#13094,						
	part 4						
Through	BAAQM	Y		1,400 tons/yr	BAAQMD	P/D	Record
-put	D				condition		keeping
(catalyst)	condition				#13094, part 5		
	#13094,						
	part 2						

Table VII - EE
Applicable Limits and Compliance Monitoring Requirements
S602 - X3 ALUMINA SURGE HOPPER

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM D 6-301, condition #13095,	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Condition #13095, part 3	С	Bag failure warning device
FP	part 1 BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Condition #13095, part 3	С	Bag failure warning device
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQM D condition #13095, part 4	Y		0.006 gr/dscf	BAAQMD Condition #13095, part 3	С	Bag failure warning device
Air flow rate	BAAQM D condition #13095, part 4	Y		200 scfm	BAAQMD condition #13095, part 4	N	
Through -put (Alumina	BAAQM D condition #13095, part 2	Y		9,636 tons/yr	BAAQMD condition #13095, part 5	P/D	Record keeping

95

Table VII - FF
Applicable Limits and Compliance Monitoring Requirements
S603 - X3 EXTRUDER

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <		N	
	D 6-301,			3 minutes/hr			
	condition						
	#13096,						
	part 1						
NH3	BAAQM	Y		490 lb/day or 48,000	BAAQMD	P/A	Source test
	D #15672,			lb/yr	condition		
	part 5				#15672, part 11		
Through	BAAQM	Y		31,665 tons/yr	BAAQMD	P/D	Record
-put	D				condition		keeping
	condition				#13096, part 3		
	#13096,						
	part 2						
Nickel	BAAQM	Y		0.84% by weight per	BAAQMD	P/M	Record
content	D			year	condition		keeping
	condition				#15672, part 14		
	#15672,						
	part 10						

Table VII - GG
Applicable Limits and Compliance Monitoring Requirements
S604 - X3 DRYER

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQM	Y		Ringelmann 1.0 for <	BAAQMD	С	Pressure drop
	D 6-301,			3 minutes/hr	Condition		monitoring
	condition				#13097, part 3		device
	#13097,						
	part 1						

Table VII - GG Applicable Limits and Compliance Monitoring Requirements S604 - X3 DRYER

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
FP	BAAQM	Y		0.15 gr/dscf	BAAQMD	С	Pressure drop
	D 6-310				Condition		monitoring
					#13097, part 3		device
	BAAQM	Y		$4.10P^{0.67}$ lb/hr, where		N	
	D 6-311			P is process weight,			
				ton/hr			
	BAAQM	Y		0.006 gr/dscf	BAAQMD	С	Pressure drop
	D				Condition		monitoring
	condition				#13097, part 3		device
	#13097,						
	part 4						
NH3	BAAQM	Y		490 lb/day or 48,000	BAAQMD	P/A	Source test
	D #15672,			lb/yr	condition		
	part 5				#15672, part 11		
Nickel	BAAQM	Y		0.84% by weight per	BAAQMD	P/M	Record
content	D			year	condition		keeping
	condition				#15672, part 14		
	#15672,						
	part 10						
Air flow	BAAQM	Y		12,000 scfm		N	
rate	D						
	condition						
	#13097,						
	part 4						
Natural	BAAQM	Y		534,360 therms/yr	BAAQMD	C/M	Fuel meter
gas	D				condition		and Record
	condition				#13097, part 6		keeping
	#13097,				and 7		
	part 5						

Table VII - HH
Applicable Limits and Compliance Monitoring Requirements
S606 - X3 CALCINER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301, condition #15672, part 1	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD condition #15672, part 2	С	Bag failure warning device
FP	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD condition #15672, part 2	С	Bag failure warning device
	BAAQM D 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N	
	BAAQM D condition #15672, part 3	Y		0.006 gr/dscf	BAAQMD condition #15672, part 2	С	Bag failure warning device
NOx	BAAQM D condition #15672, part 6	Y		51 lb/day or 18,500 lb/yr	BAAQMD condition #15672, part 12	С	CEM
СО	BAAQM D condition #15672, part 9	Y		19,524 lb/yr	BAAQMD condition #15672, part 12	С	СЕМ
	BAAQM D condition #15672, part 8	Y		25 ppmv when A606 inlet concentration ≤200 ppmv	BAAQMD condition #15672, part 12	С	CEM

Table VII - HH Applicable Limits and Compliance Monitoring Requirements S606 - X3 CALCINER

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
СО	BAAQM	Y		90% mass basis	BAAQMD	С	CEM
abateme	D				condition		
nt	condition				#15672,		
efficienc	#15672,				part 12		
у	part 8						
NH3	BAAQM	Y		490 lb/day or 48,000	BAAQMD	P/A	Source test
	D #15672,			lb/yr	condition		
	part 5				#15672,		
					part 11		
SO2	BAAQM	Y		GLC of 0.5 ppm for 3		N	
	D 9-1-301			min. or 0.25 ppm for			
				60 min. or 0.05 ppm			
				for 24 hours			
	BAAQM	Y		50 lbs/hr		N	
	D 9-1-						
	311.2						
Nickel	BAAQM	Y		0.84% by weight per	BAAQMD	P/M	Record
content	D			year	condition		keeping
	condition				#15672,		
	#15672,				part 14		
	part 10						
Air flow	BAAQM	Y		1,736 scfm		N	
rate	D						
	condition						
	#15672,						
	part 3						
Natural	BAAQM	Y		700,000 therms at S7	BAAQMD	P/C/M	Fuel meter,
gas	D				condition		Record
	condition				#15672,		keeping
	#15672,				part 13 & 14		
	part 4						

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible
6-301		Emissions
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates
6-310		Sampling
BAAQMD	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates
6-311		Sampling
BAAQMD	VOC emissions	Manual of Procedures, Volume IV, ST-7, or
8-16-601		EPA Method 25 or 25A
BAAQMD	VOC content	Manual of Procedures, Volume III, Methods 21 or 22, 31
8-16-602		
BAAQMD	Ground Level	Manual of Procedures, Volume VI, Section 1.
9-1-301	Concentrations, SO2	
BAAQMD	Emission Limitations, SO2	Manual of Procedures, Volume IV, ST-19A or B.
9-1-311.2		
BAAQMD	Emission Limit, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of
conditions		Nitrogen, Continuous Sampling or
#9315,		EPA Method 7E, 40 CFR Part 60 Appendix A
#13100,		
#15672,		
BAAQMD	Emission Limit, CO	Manual of Procedures, Volume IV, ST-6, Carbon
condition		Monoxide
#9315,		
#15672,		
BAAQMD	Stack-gas Oxygen	Manual of Procedures, Volume IV, ST-14, Oxygen
condition		
#9315		
BAAQMD	Emission Limit, NH3	Manual of Procedures, Volume IV, ST-1B, Ammonia
condition		
#9315, #15672		

VIII Test Methods

Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ni content	Atomic Absorption Spectro-photometry
condition		
#3344, #8468,		
#15672		
BAAQMD	Hexavalent Chromium	Manual of Procedures, Volume III, Method 34
condition		
#16736		

IX. PERMIT SHIELD

Not applicable

X. GLOSSARY

ACT

Federal Clean Air Act

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEQA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including

X. Glossary

those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

NMHC

Non-methane Hydrocarbons

NOx

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR

X. Glossary

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Particulate Matter

PM10

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TRMP

Toxic Risk Management Plan

X. Glossary

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XI. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments